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PATENT COOPERATION TREATY REC'D 2 9 AUG 2005

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference PP-J0022	FOR FURTHER ACTIO	N	See Form PCT/IPEA/416	
International application No.	International filing date(day)		Priority date (day/month/ye 23 APRIL 2003 (23.04.20	
PCT/KR2004/000940 International Patent Classification (IPC)	23 APRIL 2004 (23.04)		23 AI KIL 2003 (25.04.200	
IPC7 H01S 3/10, G08E				
Applicant KOREA ADVANCED INSTI	TUTE OF SCIENCE A	ND TECHNO	LOGY et al	
This report is the international p Authority under Article 35 and t	ransmitted to the applicant acc	ording to Article 30) ,	mining
2. This REPORT consists of a total	of 3 sheets, in	cluding this cover s	heet.	
3. This report is also accompanied a. (sent to the applicant a	nd to the International Bureau)	a total of	sheets, as follows:	
sheets of the de and/or sheets co	escription, claims and/or drawing training rectifications authorized instructions).	ngs which have be zed by this Authorit	en amended and are the basis of the control of the	n 607 of the
beyond the disc Supplemental F b. (sent to the Internation	persede earlier sheets, but which closure in the international appl Box. nal Bureau only) a total of (ind listing and/or tables related the ating to Sequence Listing (see	ication as filed, as i	ber of electronic carrier(s)) readable form only, as indicate	. 1 and the
This report contains indications	relating to the following items			
Box No. I Basis of t	he report			
Box No. II Priority Box No. III Non-esta	blishment of opinion with rega	ard to novelty, inve	ntive step and industrial applic	cability
	unity of invention .			
No V Reasone	d statement under Article 35(2 and explanations supporting st	2) with regard to no uch statement	velty, inventive step or indust	rial applicability;
Box No. VI Certain	documents cited		•	
1 1	defects in the international appl			
Box No. VIII Certain	observations on the internation	al application	•	
Date of submission of the demand	,	Date of completion	n of this report	
23 NOVEMBER 20	04 (23.11.2004)	04 AUGU	JST 2005 (04.08.2005)	
Name and mailing address of the IP	EA/KR	Authorized office	r	A SERVICE OF
Korean Intellectual Pro 920 Dunsan-dong, Seo- Republic of Korea	nerty Office	BAK, Junyı	ing '	
Facsimile No. 82-42-472-7140		Telephone No. 8	2-42-481-5729	All lesi Par

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/KR2004/000940

Box	k No. I	Basis (of the report	
1:	otherv	wise indice This report which is int pu int int	to the language, this report is based on the international application in the landicated under this item. port is based on translations from the original language into the following last the language of a translation furnished for the purposes of: International search (under Rules 12.3 and 23.1(b)) Dispublication of the international application (under Rule 12.4) International preliminary examination (under Rules 55.2 and/or 55.3)	nguage English
2.	to the	receiving ced to this	to the elements of the international application, this report is based on (replaining Office in response to an invitation under Article 14 are referred to in this ais report): Armational application as originally filed/furnished	cement sheets which have been furnished reort as "originally filed" and are not
		the desc	scription:	as originally filed/furnished
		pages	received by this Authority on	
1		pages*	·	
.	_	pages _		
		the clair	ims:	as originally filed/furnished
]. ,		pages _	as amended (toge	her with any statment) under Article 19
"		pages*_ pages*_	received by this Authority on	
.	• •	pages*_		
1		the drav	awings:	as originally filed/furnished
		pages _ pages*_	received by this Authority on	
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3			amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify):	
			any table(s) related to sequence listing (specify):	
	4. <u> </u>	made, (Rule	report has been established as if (some of) the amendments annexed to this e, since they have been considered to go beyond the disclosure as filed, as in e 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):	dicated in the Supplemental Box
	* If ii	tem 4 app	oplies, some or all of those sheets may be marked "superseded."	, .

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/KR2004/000940

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Statement Novelty (N)	Claims Claims	1~16	ŇO ŽES			
	· Inventive step (IS)	· Claims·	1~16	YES NO			
	Industrial applicability (IA)	Claims	1~16	_yes _no			

Citations and explanations (Rule 70.7)

This statement is based on the claims 1~16 as originally filed.

The claimed invention relates to a device for generating a plane or a conical beam with a (shell-type) cylindrical prism. The beam generator according to the present invention comprises (i) a (shell-type) cylindrical prism and (ii) a laser beam generator for emitting a laser beam to the outer surface of the cylindrical prism. The laser beam is converted to a plane beam or conical beam by controlling the incident angle of the laser beam incident on the cylindrical prism. The produced beam is useful in a security system.

None of the documents in the International Search Report (ISR), taken alone or in combination, discloses the special combination of features defined in the invention. Furthermore, in the ISR documents there are no suggestions leading a person skilled in the art towards the invention defined by the claims 1~16. Therefore, the invention is novel, involves an inventive step, and has industrial applicability.